	Substitute for Form 1449 A & B/PTO		Complete if Known			
			Application Number	10/662,397		
	NIFORMATION DISCLOSURE		Confirmation Number	Unknown		
/-	STATEMENT BY APPLICANT		Filing Date	September 16, 2003		
n	C 2 3 2003 =		First Named Inventor	USUI, Minoru		
L 7	(use as many sheets as necessary)	•.	Art Unit	Unknown		
展	<u></u>		Examiner Name	Unknown		
শ	TRADENAS Reet 1 of 1		Attorney Docket Number	Q77369		

U.S. PATENT DOCUMENTS										
Examiner	Cite	Document N	umber	Publication Date						
Initials*	No.1	Number .	Kind Code <sup>2</sup> (if known)	MM-DD-YYYY	Name of Patentee or Applicant of Cited Document					
		US		_ ·						
		US .								
		US			× × × × × × × × × × × × × × × × × × ×					
		US								
		US								
111		US	:							
		US								
		US .								
-		US								

			FC	REIGN PA	TENT DOCUM	ENTS	
Examiner	Cite	Fo	reign Patent Docum	ent	Publication Date	Name of Patentee or	Translation <sup>6</sup>
Initials*	No.1	Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>3</sup> (if known)	MM-DD-YYYY	Applicant of Cited Document	
(1/2)		JP ·	60-4820	Α	1/11/1985		Yes
<del>5 ( 6)</del>			* 1. · ·		· · · · · · · · · · · · · · · · · · ·		
(V.m.)				•			
		• .				,	
		3	• •	3	_		
		, , , , , ,					
							17
i		X- 7					
· · · · · ·	•		-				
				* · ·	•		
			· · · · · · · · · · · · · · · · · · ·		141		

NON PATENT LITERATURE DOCUMENTS												
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.										
	•											
			-									

	 			<u> </u>					
Examiner Signature	ndo	1 d	ノブ	wksor	Date Considered	05	/14	low	,
			, ,				$\mathcal{T}$	,	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kind Codes of USPTO Patent Documents at www.uspto.gov, MPEP 901.04 or in the comment box of this document. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>3</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to indicate here if English language Translation is attached.

Sub-diam San Daniel 1440	INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known		
Substitute for Form 1449			Application Number	Unknown	
INFOR	MATION	מופרו חפ	IIRF .	Confirmation Number	Unknown
1	INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Filing Date	September 16, 2003	
SIAIR	SIMILEIAI DI	APPLICA	AINI	First Named Inventor	USUI, Minoru
(use	as many sheet.	s as necessar	y)	Art Unit	Unknown
			<u> </u>	Examiner Name	Unknown
Sheet	1	of	5	Attorney Docket Number	Q77369

				PATENT DOCU	MENTS		
Examiner Initials*	Cite No.1	Number Kind Cod		I MM.IIII.YYYY I	Name of Patentee or Applicant of Cited Document		
		US 2002/0015068	A1	2-7-2002	Tsukada et al.		
160 1		US 2002/0135623	Al	9-26-2002	Tsukada et al.		
1		US 5,689,288		11-18-1997	Wimmer et al.		
	· · · ·	US 5,774,136		6-30-1998	Barbehenn et al.		
		4,811,595		3-1989	Marciniak et al.		
0	·	5,975,102		11-2-1999	Schalk et al.		
1(1)		6,044,694		4-4-200	Anderson et al.		
1.5	-	3,110,890		11-12-1963	V.C. Werstcott et al.		
		4,329,875		5-18-1982	Nolting et al.		
		4,594,891		6-17-1986	Benz et al.		
		4,703,652		11-3-1987	Itoh et al.		
		6,089,686	Α	7-18-2000	Thornton et al.		
AUZ		6,089,688	A`	7-18-2000	Thornton et al.		
X 3	1	4,479,982		10-30-1984	Nilsson et al.		
Cake		5,616,929		4-1-1997	Hara · · ·		
(AL)		US 4,770,038		9-13-1988	Zuckerwar et al.		
、ちょ		US 5,586,085		12-17-1996	Lichte		
Au)		US 6,312,074		11-2001	Ray A. Walker		
AU		US 6,164,744		12-2000	Froger et al.		
T.C.J.		US 5,353,631		10-1994	Woringer et al.		

. 15		· ·	F(	DREIGN PA	TENT DOCUME	ENTS		
Examiner	iner Cite Foreign Patent Document Publicat		Publication Date	Name of Patentee or				
Initials*	No.1	Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)	MM-DD-YYYY	Applicant of Cited Document	Translation <sup>6</sup>	
		EP	684.136	A2	11-29-1995	_		
		FR	2,572,519	Al	5-2-1986			
		wo ·	98/09139	• A1 -	3-5-1998			
	=	-JP	-58-205820	A	-H-30-1983		-	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city, and/or country where published.	Translation <sup>6</sup>
		Patent Abstracts of Japan for publication-No02-034353,-Vol014, 186 (M-0962), February 5, 1990,-Cannon Inc.	•
		-Patent-Abstracts-of-Japan, for publication No-07-081290, Vol1995, No. 06 March 28, 19956-Pentel-KK	

Examiner Signature Indre No Jackson Date Considered 05/14/04.

Strike throughs are not filed with the application

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kind Codes of USPTO Patent Documents at www.uspto.gov, MPEP 901.04 or in the comment box of this document. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to indicate here if English language Translation is attached.

	•			Comp	lete if Known
Substitute for Form 144	9 A & B/PTO		, .	Application Number	Unkown
INFO	RMATION DISC			Confirmation Number	Unknown
STAT)	EMENT BY API	PLIC	ANT	Filing Date	September 16, 2003
(use a	s many sheets as r	neces	sarv)	First Named Inventor	Minoru USUI
	, , , , , , , , , , , , , , , , , , , ,			Art Unit	Unknown
		:	· , .	Examiner Name	Unknown
Sheet	2	of	5	Attorney Docket Number	Q77369

٠.		·	U.S. P	ATENT DOC	UMENTS		
Examiner Initials*	Cite	Document N	umber	Publication Date MM-DD-YYYY			
	No.1	Number	Kind Code <sup>2</sup> (if known)		Name of Patentee or Applicant of Cited Document		
1.7		US 6,470,744	B1	10-29-2002	USUI, et al.		
0.1		US 2002/0012015	Al	01-31-2002	TSUKADA, et al.		
4.1		US 2002/0015084	A1	02-07-2002	TSUKADA, et al.		
A.J.		US 2002/0170353	A1	11-21-2002	USUI, et al.		
		US 6,536,861	B1	3-25-2003	USUI et al.		
11		US 2003/0117450	A1	6-26-2003	USUI et al.		
		US 2003/0117451	AI	6-26-2003	USUI et al.		
1.1		US 2003/0043216	· A1	3-6-2003	USUI et al.		
NY		US 2003/0140694	A1	7-31-2003	USUI et al.		

		·	FO	REIGN PA	TENT DOCU	MENTS			٠ .	
Examiner Initials*	Cite	Fo	oreign Patent Docu	ment	Publication Date MM-DD-YYYY	Non	ne of Patentee		T	
	No.1	Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)		t e	at of Cited Doc		Transla	nslation <sup>6</sup>
17		JP	10-305590		11-17-1998		<del></del> -			
スク		EP .	1,088,668	A1	4-4-2001			•	+	
		EP ·	853,236	A1	7-15-1998				<del> </del>	
A 2		JP	10-26549	A	1-27-1998			<del></del>	+	
14		JP	7-137276	A	5-30-1995		- 32		<del>                                     </del>	<del></del>

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite - No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation <sup>6</sup>
A UN		English language abstract No. Hei 10-305590 November 17, 1998	7
		Patent Abstracts of Japan, Vol. 1998, No. 5, April 30, 1998	
		-Patent Abstracts of Japan, Vol. 1995, No. 8, September 29, 1995	
		Patent-Abstracts of Japan, Vol. 2000, NO. 14, March 5, 2001	

Examiner Signature Italian Ku	Jackson	Date Considered 05/14/04
		Strikethroughs not filed with application

<sup>•</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kind Codes of USPTO Patent Documents at www.uspto.gov, MPEP 901.04 or in the comment box of this document. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>3</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to indicate here if English language Translation is attached.

		Comp	lete if Known		
Substitute for Form 1449 A & B/PTO	•	Application Number Unknown			
INFORMATION DISCLOS		Confirmation Number	Unknown		
STATEMENT BY APPLIC	ANT	Filing Date	September 16, 2003		
(use as many sheets as necess	sary)	First Named Inventor	Minoru USUI, et al.		
		Art Unit	Unknown		
		Examiner Name	Unknown		
Sheet 3 of	5	Attorney Docket Number	Q77369		

Examiner	Cite	Document	Number		
Initials*	No.1	Number	Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
2		US 4,811,595		3/14/1989	Marciniak et al.
44		US 4,770,038		9/13/1988	Zuckerwar et al.
12	·	US 5,353,631		10/11/1994	Woringer et al.
41		US 5,949,447		9/7/1999	Arai et al.
1		US 5,774,136	N is	6/30/1998	Barbehenn et al.
dia	, 100	US 5,712,667	The state of the s	1/27/1998	Sato
1		US 6,164,744		12/26/2000	Froger et al.
1		US 3,832,900		9/3/1974	Ross
1		US 3,703,693 .	*	11/21/1972	Levinn
4.3		US 4,403,227		9/6/1983	Bertschy et al.
Aw	*	US 6,007,190		12/28/1999	Murray et al.
1		US 6,312,106		11/6/2001	Walker
15 - Tr.		US 6,312,115		11/6/2001	Hara et al.
1		US 6,390,590		5/21/2002	Hansburg
Au	*	US 5,463,377		10/31/1995	Kronberg
	4	US 5,788,819		8/4/1998	Onishi et al.
00		US 5,975,102		11/2/1999	Schalk
101		US 6,044,694		4/4/2000	Anderson et al.
		US 6,312,074		11/6/2001	Walker
		US 5,737,963	T	4/14/1998	Eckert et al.
N.J.		US 5,747,689		5/5/1998	Hampo et al.
100		US 5,788,388		8/4/1998	Cowger et al.
1 -1	-	US 4,984,457	1	1/15/1991	Morris
		US 5,315,317		5/24/1994	Terasawa et al.
(7)		US 5,689,288		11/18/1997	Wimmer et al.
100		US 5,697,248		12/16/1997	Brown
		US 3,889,247		6/10/1975	\$7.11
3		US 5,586,085		12/17/1996	Lichte
1		US 4,984,449	1	1/15/1991	Caldwell et al.
3.		US 5,793,705	+	8/11/1998	Gazis et al.
1	-	US 4,008,612	<del>   </del>	2/22/1977	
5		US 4,107,994		8/22/1978	Nagaoka et al.
15		US 4,419,677	<del> </del>	12/6/1983	Sogo
-		US 4,796,782	<del>                                     </del>	1/10/1989	Kasugayama et al. Wales et al.

	:	
Examiner Signature Hodre R- Jack	50 \ Date Considered 05	114/04
•		

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at www.uspto.gov, MPEP 901.04 or in the comment box of this document. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>3</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to indicate here if English language Translation is attached.

			•		Comp	lete if Known
Substitute for Form 1	449 A & B/PTO			App	lication Number	Unknown
	, ,			Con	firmation	
INFO	RMATION DIS	CLOSURE	•	Nun	nber	Unknown
STA'	TEMENT BY A	PPLICANT		Filir	ng Date	September 16, 2003
(use	as many sheets as	necessary)		First	Named Inventor	Minoru USUI, et al.
, (2000		· ····································		Art	Unit	Unknown
		197		Exa	miner Name	Unknown
Sheet	4	of 5		Atto Nun	rney Docket aber	Q77369
		:				
		U.S. PA	ATENT D	OCU.	MENTS	
xaminer Cite	Document N		Publication	Date		
nitials* No.1	Number	Kind Code <sup>2</sup> (if known)	MM-DD-Y	YYY	Name of Patentee	or Applicant of Cited Document
						••
				- 1		
						,,

	FOREIGN PATENT DOCUMENTS									
Examiner	Cite	Foreign Patent Document		ment	Publication Date	Name of Patentee or	PR 1			
Initials*	No.1	Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)	MM-DD-YYYY	Applicant of Cited Document	Translation			
	• • • •	wo 🗸	98/31548		7/23/1998	Hewlett-Packard Company				
		JP 🗸	63247047		10/13/1988	Canon Inc.	Abstract			
( )		GB 🗸	2 304 898	-3-	3/26/1997	The Whitaker Corporation				
	, .	wo V	98/09139		3/5/1998	The General Electric Company	100-10			
		EP V	0 873 873		10/28/1998	Hewlett-Packard Company				
(Lula	_	JP V	06297726		10/25/1994	Canon Inc.	Abstract ·			
	· 1.	JP V	6295225	•	5/1/1987	Canon Inc.	Abstract			
		EP .	0 676 624	8.1	10/11/1995	Simmonds Precision Products Inc.	1.4			
15		EP /	0 803 364		10/29/1997	Canon Inc.	,			
9		EP ~	1 088 668	,	4/4/2001 "	Hewlett-Packard Company				
		JP 🗸	10026549		1/27/1998	Nohken	Abstract			
4.2		JP 🗸	07137276		5/30/1995	Canon Inc.	Abstract			
		EP 🗸	0 853 236		7/15/1998	Smiths Industries Public Limited Co.	•			
3/22		JP V	04135862		5/11/1992	Seikosha Co. Ltd.	Abstract			
300		JP 🟑	10-305590		11/17/1998	Matsushita Electric Co., Ltd.	Abstract			
2		wo /	99/42293		8/26/1999	Minnesota Mining & Manufacturing Co.				
47.5		EP 🗸	0 660 092		6/28/1995	Canon Inc.	• " •			
1.50		EP /	. 0 553 535 ;	*	8/4/1993	Seiko Epson Corporation				
chat		JP 🗸	2000318183		11/21/2000	Sony Corporation	Abstract			
		1 1	,							

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Imitials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation <sup>6</sup>
(A.)		US 2002/0105555, published 8/8/2002 to Tsukada et al.	
04.0.			

· · · · · · · · · · · · · · · · · · ·	$\triangle$	·		· ·			
Examiner Signature	1	tadri	Ki	Deckion	Date Considered	05	114/04
		,	٠.٠				

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at www.uspto.gov, MPEP 901.04 or in the comment box of this document. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>3</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to indicate here if English language Translation is attached.

*	•			Complete if Known				
Substitute for For	n 1449 A & B/PT	<b>'O</b> ,	•	Application Number	Unknown			
		ON DISCLO		Confirmation Number	Unknown			
. 51	ATEMENT	BY APPLIC	CANT	Filing Date	September 16, 2003			
· (u	se as many s	heets as neces	ssarv)	First Named Inventor	Minoru USUI, et al. Unknown Unknown			
				Art Unit				
	· ·			Examiner Name				
Sheet	5	of	5	Attorney Docket Number	Q77369			

U.S. PATENT DOCUMENTS										
Examiner	Cite	Document N	umber							
Initials*	No.1	Number	Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document					
X-0		US 5,410,518		4/25/1995	Birkett					
1		US 4,594,891		6/17/1986	Benz et al.					
10		US 6,302,527		10/16/2001	Walker					
1		US 6,050,669		4/18/2000	Yano et al.					
1		US 6,012,793	1	1/11/2000	Haigo					
		US 5,877,997	*	3/2/1999	Fell					
11		US 4,853,718		8/1/1989	El Hatem et al.					
الإسلا	·	US 5,035,140		7/30/1991	Daniels et al.					
A-1		US 5,583,544		12/10/1996	Stamer et al.					
Exa. 12		US 5,619,238	1	4/8/1997	Higuma et al.					
7		US 5,675,367		10/7/1997	Scheffelin et al.					
200		US 3,220,258		11/30/1965	Rod					
Au		US 4,636,814 .		1/13/1987	Terasawa					
1.7		US 5,473,353		12/5/1995	Soucemarianadin et al.					

Examiner Initials*	Cite No.1	Fe	oreign Patent Docu		TENT DOCU	VILO	· · ·		ş.*	· ·
		· Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)	MM-DD-YYYY		Applicant	of Patentee or of Cited Document	•	Translation <sup>6</sup>
						_			<u> </u>	· · · · · · · · · · · · · · · · · · ·
				· · · · · · · · ·			•			
			,.					•		
					•				•	
- 10		·					* *			
A										

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS									
Examiner Cite Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazing journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where publisher.									
. •									
<del></del>									
			•						

I			<del></del>		
Everying Cianata	L    -			/	
Examiner Signature	ndre & Vikson	Date Considered /	0 0 /111	1011	
	THE PLANT OF THE PARTY OF THE P	Date Considered [6	10/17	/ • • • •	
			7 7		

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at www.uspto.gov, MPEP 901.04 or in the comment box of this document. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>3</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to indicate here if English language Translation is attached.